

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085843 A1

(51) International Patent Classification⁷: **F03B 13/18**

(21) International Application Number:
PCT/SE2004/000421

(22) International Filing Date: 22 March 2004 (22.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0300870-3 27 March 2003 (27.03.2003) SE

(71) Applicant (for all designated States except US):
SWEDISH SEABASED ENERGY AB [SE/SE];
Geijersgatan 56 A, S-752 31 Uppsala (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEIJON, Mats**
[SE/SE]; Hävelvägen 6, S-756 47 Uppsala (SE). **BERN-
HOFF, Hans** [SE/SE]; Geijersgatan 56 A, S-752 31
Uppsala (SE).

(74) Agents: **KARLSSON, Lelf et al.**; Groth & Co. KB, Box
6107, S-102 32 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): **AE, AG, AL, AM,**

**AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.**

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): **ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).**

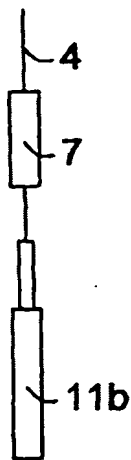
Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii)) for the following designations **AE,
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,
ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD,
SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY,**

[Continued on next page]

(54) Title: **WAVE POWER ASSEMBLY**

(57) Abstract: The invention relates to a wave power assembly having a hull and a linear electric generator. The rotor (7) is, by means of connection means (4), connected to the hull so that lifting force is transferred from the hull to the rotor (7). Spring means (11b) exerts a force on the rotor (7) that is counter-directed the lifting force. According to the invention, the spring means (11b) is arranged to, at a motion amplitude corresponding to 50 % of the maximum length of stroke of the rotor (7), exert a force, the size of which varies by a factor of 2,5 as a maximum. The invention also relates to a wave power plant built up from wave power assemblies according to the invention. Furthermore, the invention relates to a use of the wave power assembly and a method for the generation of electric energy.



WO 2004/085843 A1